	Application No.	Applicant(s)	
Notice of Allowability	10/752,210	BAE, MYOUNG-KW	ANG
	Examiner	Art Unit	/
	Tu-Tu Ho	2818	_ pr
The MAILING DATE of this communication apperation apperation all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIFUNCTION of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate common GHTS. This application is s and MPEP 1308.	n this application. If not include unication will be mailed in due	ed course. THIS
1. A This communication is responsive to <u>Papers filed on 06/30</u>	<u>/2004</u> .		
2. \boxtimes The allowed claim(s) is/are <u>1-16</u> .	-		
3. $igotimes$ The drawings filed on <u>06 January 2004</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	on No. <u>10/364,942</u> .	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the rec	quirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or N r declaration is deficient.	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the date.	on's Patent Drawing Review Amendment / Comment on Butter on the header according to 37 CF	r in the Office action of he drawings in the front (not the R 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	FOR THE DEPOSIT OF BIG	DLOGICAL MATERIAL.	Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 01/06/2004 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview S Paper No. 7. Examiner's	formal Patent Application (PT0 ummary (PT0-413), /Mail Date Amendment/Comment Statement of Reasons for Allo	ŕ
David Nelms Supervisory Patent Examiner Technology Center 2800			

DETAILED ACTION

Election/Restrictions

1. Claim 1 is generic and allowable. Accordingly, the restriction requirement as to the encompassed species is hereby withdrawn and claims 2-5, directed to the species of Fig. 3K, no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim.

In view of the above noted withdrawal of the restriction requirement as to the linked species, applicant(s) are advised that if any claim(s) depending from or including all the limitations of the allowable generic linking claim(s) be presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Allowable Subject Matter

2. Claims 1-16 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious a fuse box of an integrated circuit device having all exclusive limitations as recited in claims 1, 9, and 16, comprising a fuse line at a fuse portion, a first insulating layer on the fuse line, a first guard ring pattern enclosing the fuse line and on the first insulating layer, a second insulating layer on the first guard ring pattern and the first insulating layer, and a second guard ring pattern that encloses the fuse line on the second insulating layer, characterized in that a passivation layer, on the second insulating layer and the second guard ring pattern, defines a portion of a fuse opening having a sidewall in the first and second insulating layers and the passivation layer extends on the sidewall of the fuse opening to at least the first

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insulating layer, or that the second insulating layer has an opening partially exposing the fuse

portion and the first guard ring pattern.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Copies of the references are not being furnished with this Office Action per MPEP

§ 707.05(a).

U.S. Patent 6,121,073 to Huang et al., cited in the parent application, discloses a fuse

structure for integrated circuit having a fuse portion comprising multiple-level metal patterns,

which do not appear to form a ring, and a passivation layer, which together with the multiple-

level metal patterns forms a fuse opening, over a fuse line, the passivation layer not extending on

the sidewall of the fuse opening to at least a lower interlevel dielectric layer, and an upper

interlevel dielectric layer not partially exposing the fuse portion and not partially exposing a

lower metal pattern of the multiple-level metal patterns.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu-Tu Ho July 14, 2004

David Nelms
Supervisory Patent Examiner
Technology Center 2800